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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/619,398	07/15/2003	Johannes Hendrikus van Lith	VAND10	7671	
759	7590 06/15/2006		EXAMINER		
Ryan A. Schne	eider	CHARLES, MARCUS			
Troutman Sande	- <del>-</del>		D. DCD \ W. CDCD		
Bank of Americ	a Plaza, Suite 5200	ART UNIT	PAPER NUMBER		
600 Peachtree S		3682			
Atlanta, GA 30308-2216			DATE MAILED: 06/15/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	tion No.	Applicant(s)	Applicant(s)				
		10/619,	398	VAN LITH ET AL.					
	Office Action Summary	Examin	er	Art Unit					
		Marcus	Charles	3682					
Period fo	The MAILING DATE of this commun or Reply	ication appears on t	he cover sheet v	with the correspondence ac	idress				
WHI0 - External after af	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MEMORISH IS LONGER IN THE MEMORISH IN	AILING DATE OF 7 of 37 CFR 1.136(a). In no sunication. atutory period will apply and will, by statute, cause the a	FHIS COMMUN event, however, may a will expire SIX (6) MC polication to become A	ICATION. The reply be timely filed  ONTHS from the mailing date of this control of the control o					
Status									
1)	Responsive to communication(s) file	d on 05 May 2006							
		2b)⊠ This action is	non-final						
3)									
-,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims	•	•						
4)  🂢	4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.								
,,	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)□	5) Claim(s) is/are allowed.								
· —	6)⊠ Claim(s) <u>1-20</u> is/are rejected.								
	Claim(s) <u>120</u> is/are rejected.  Claim(s) is/are objected to.								
	8) Claim(s) are subject to restriction and/or election requirement.								
	ion Papers		•						
	The specification is objected to by the	Evaminor							
	•		a)☐ objected to	by the Everniner					
۔۔۔/رہ،	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including				ED 4 404/4\				
11)	The oath or declaration is objected to								
	under 35 U.S.C. § 119	•							
12)	Acknowledgment is made of a claim t	or foreign priority u	nder 35 H.S.C.	8 119(a) <sub>-</sub> (d) or (f)					
	12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)⊠ All b)□ Some * c)□ None of:								
-//	<i>'</i>	documents have be	en received						
	<ul> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> </ul>								
	3. ☑ Copies of the certified copies of			· · · · · · · · · · · · · · · · · · ·	Stage				
	application from the Internation			Treceived in this Hadonal	Glage				
* 5	* See the attached detailed Office action for a list of the certified copies not received.								
		- 30.							
\ttachma-	No.\								
Attachmen	t(s) e of References Cited (PTO-892)		4) [] taka=#=	Summer (DTO 440)					
	e of References Cited (P10-892) e of Draftsperson's Patent Drawing Review (P	ГО-948)	4) 🔲 interview Paper No	Summary (PTO-413) (s)/Mail Date					
3) 🔲 Inforr	nation Disclosure Statement(s) (PTO-1449 or I		5) Notice of	Informal Patent Application (PTC	D-152)				
Paper No(s)/Mail Date 6) Other:									

#### DETAILED ACTION

This action is responsive to the Amendment/RCE filed 4/3/06 and 5/5/06 respectively. Claims 1-20 are currently pending.

#### Continued Examination Under 37 CFR 1.114

1. The request filed on 05-05-2005 for a Request for Continued Examination (RCE) under 37 CFR 1.114 based on parent Application No. 10/619,398 is acceptable and a RCE has been established. An action on the RCE follows.

### Claim Rejections - 35 USC § 102

- 1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
  - (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 1-2 and 19-20 are rejected under 35 U.S.C. 102(a) as being anticipated by JP (63-280946) to Kino discloses the claimed invention (see figs. 1-2 and 3) including a convex transition region (2d) comprising two parts having different radii curvature (see attached drawing) such that the first radius at the side surface is larger than that of the second radius at the side of the pulley contact surface.

In claim 2, it is apparent that a line inherently intersects the pulley sheave contact surface. It should be noted the line inherently passes through the intersection of the pulley-engaging surface the transition region. In must cases the line is invisible in the region of the tangent of the line representing the pulley contact surface and the point of contact between the transition region and the pulley contact surface. As shown in the previous rejections, it is apparent that the transition region as shown in the attached

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drawings is defined between and interconnects the supporting surface and the pulley sheave contact surface.

In claims 19-20, JP 63-280946) to Kino clearly discloses the drive belt and the continuously variable transmission, wherein the drive belt comprises two endless carriers (3).

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 5-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over (63-280946). JP (63-280946) to Kino does not disclose the ranges of the radii of curvature for the first and second radii. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the radii of curvature for the first and second radii so that each one has a range as recited by the claimed invention, since it has been held that where the general conditions of a claim are disclose in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.
- 5. Claims 3- 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 63-280946) to Kino in view of Yagasaki et al. (6,110,065). JP (63-280946) does not disclose the pulley contact surface of the belt element is corrugated by means of bulges. Yagasaki et al. discloses a CVT (Fig. 7) comprising belt (E) elements that are

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corrugated by means of bulges (2b) on the pulley contact surface in order to prevent

shock loading and to minimize frictional wear. Therefore, it would have been obvious to

one of ordinary skill in the art at the time of the invention to modify the pulley contact

face of the belt element of (63-280946) so that it is corrugated by means of bulges in

view of Yagasaki et al. in order to prevent shock loading and to minimize frictional wear.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Marcus Charles whose telephone number is (571) 272-

7101. The examiner can normally be reached on Monday-Thursday 7:30 am to 6:00

pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ridley Richard can be reached on (571) 272-6917. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Marcus Charles
Primary Examiner

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June 07, 2006

### 特開昭63-280946(5)

頭部21部分、即ち頭部両側部分8.8 と上サドル部 28、2gを有する従片9との両者に分割製作し、そ れぞれの各部特密加工を施したものを事後結合し てプロック2 としたので、主片7 における傾斜面 26の角度α、下の精密加工、下サドル部24の半径 R, 、R, 下の球面加工、首部2eにおける4階の Rsによる角取り加工、また各プロックの並列結 合の位置決め、振れ止め用の係合用凹凸部2h, 2i の対応位置においての成形加工は、何れも海部5 が全く存在しないことにより、きわめて容易にそ の厳密な高精度加工内容が、機械的研制、研磨手 段あるいは精密型鍛造手段の如何を問わず、充分 に得られるのであり、また従片9 における上サド ル部2gの加工も同様であり、また基本的な原形製 作に当っても、従来のプロック2 を製作するもの に比し、主片7 および従片9 に分けて各個製作す ることは、燭仮打抜き、焼結手段の何れにおいて もきわめて容易であり、量産化を可能として大幅 なコストダウン効果が得られるのであり、またそ の分割位置としても、ブロック頭部21側において

中央部分6 と両側部8.8 とすることは、例えば第9 図に例示するように、首部2eの中央から上下2分する手段に比し、強度上また加工上において零しく有利であり、この種伝導ベルトにおける押し要素として重要な金属プロックの改良として優れた効果を持つものである。

#### 4. 図面の簡単な説明

第1、2、3 各図は何れも本発明ブロック実施例の各正面図、第4、5 図は従来ブロックの正面および擬断側面図、第6 図は同下サドル部、第7図は同上サドル部の各要部断面図、第8図は同首部の機断面図、第9図は接合ブロック例の説明図、第10図は本発明の対象とする伝導ベルト例の凝断正面図、第11図は同ベルト要部の一部切欠斜面図、第12図は同ブロック例の側面図である。

1 …伝苺ベルト、2 …金属ブロック、3 …金属フーブ、2a… 芸部、2b, 2c…傾斜面、2d… 下サドル部、2e… 首部、2f…頭部、2g… 上サドル部、2b… 凸部、2i… 凹部、6 …頭部中央部分、7 … 主片、8 …頭部両側部分、9 … 従片。

